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POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

Application Number	10/047686
Filing Date	November 13, 2001
First Named Inventor	YOSHITERU HATASE ET. AL.
Title	COLORED THERMOPLASTIC RESIN COMPOSITIONS FOR LASER WELDING, SPECIFIC NEUTRAL ANTHRAQUINONE
Group Art Unit	UNKNOWN
Examiner Name	UNKNOWN
Attorney Docket Number	AD8836 US NA

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OR	at Customer Number	23906		23906 PATENT TRACE MARK	OFFICE
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as my/our attorney the United States F	(s) or agent(s) to prosecute the Patent and Trademark Office or	e application identification application identification identifica	ed above, and	to transact all bu	isiness in
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I am the:					
Applicant/inv	entor.				
Assignee of r	ecord of the entire interest. Sender 37 CFR 3.73(b) is enclose	e 37 CFR 3.71 d. <i>(Form PTO/SB/9</i>	6) .		
SIGNATURE of Applicant or Assignee of Record					
Name					
Signature	Reila-Karl -	······································			
Date	Reil 5, 2002				
NOTE: Signatures of all the	NOTE: Signatures of all the inventors or easigness of record of the entire interest or their representative(s) are required. Submit multiple forms if name than one signature is required, see below.				
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Burden Hour Statement: This form is collimated to take 3 minutes to complete. Time will vary depending upon the needs of the inclinidual cape, Any Caramants on the enternt of time you are required to complete this form should be cent to the Chief Information Officer, U.S. Pelant and Tradomert Office, Washington, DC 20231, DO NOT SEND FEEB OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Palents, Washington, DC 20231.

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		Application Number	10/047686	
		Filing Date	November 13, 2001	
Fin		First Named Inventor	YOSHITERU HATASE ET. AL	
		Title	COLORED THERMOPLASTIC RESIN COMPOSITIONS FOR LASER WELDIN SPECIFIC NEUTRAL ANTHRAQUINON	
		Group Art Unit	UNKNOWN	
		Examiner Name	UNKNOWN	
		Attorney Docket Number	AD8836 US NA	
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NOTE: Signatures of all the invertors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below."

SIGNATURE of Applicant or Assignee of Record

Yoshitaru Hatasa

__toms are submitted.

22, 2002

Name Signature

Please type a plus sign (+) inside this box		Арргауе	PTO/SB/81/(02-01) d for use through 10/31/2002. OMB 0851-0035
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	Application Number	10/047686	
	Filing Date	November	13, 2001
	First Named Inventor	YOSHITER	RU HATASE ET. AL.
POWER OF ATTORNEY OR	Title	COLORED	THERMOPLASTIC RESIN
AUTHORIZATION OF AGENT	Litte	COMPOSI	TIONS FOR LASER WELDING, NEUTRAL ANTHRAQUINONE
OTHORIZATION OF AGENT			···································
	Group Art Unit	UNKNOW	*****
	Examiner Name	. AD5836 U	
	Attorney Docket Number	AD6836 U	S NA
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Practitioners at Customer Number	23906	-	
OR Surfaced Number			PATENT TRADEMARK OFFICE
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as my/our attorney(s) or agent(s) to pros	ecute the application ide	ntified above,	and to transact all business in
the United States Patent and Trademark	Office connected therev	rith.	
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OR Practitioners at Customer Number OR Firm or		-	
OR Practitioners at Customer Number OR Individual Name			
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Practitioners at Customer Number OR Firm or Individual Name Address Address City Country Telephone I am the: Applicant/Inventor.	mber.	tate	(Insert Bar Code Label Here)
Practitioners at Customer Number OR Firm or Individual Name Address Address City Country Telephone I am the: Applicant/Inventor.	terest. See 37 CFR 3.7	tate	(Insert Bar Code Label Here)
Practitioners at Customer Number OR Firm or Individual Name Address Address City Country Telephone I am the: Applicant/Inventor. Assignee of record of the entire in Statement under 37 CFR 3.73(b) is	terest. See 37 CFR 3.7 is enclosed. (Form PTO)	tate SB/96).	(Insert Bar Code Label Here)
Practitioners at Customer Number OR Firm or Individual Name Address Address City Country Telephone I am the: Applicant/Inventor. Assignee of record of the entire im Statement under 37 CFR 3.73(b) is SIGNATUI	terest. See 37 CFR 3.7	tate SB/96).	(Insert Bar Code Label Here)
Practitioners at Customer Number OR Firm or Individual Name Address Address City Country Telephone I am the: Applicant/Inventor. Assignee of record of the entire in Statement under 37 CFR 3.73(b) is	terest. See 37 CFR 3.7 is enclosed. (Form PTO)	tate SB/96).	(Insert Bar Code Label Here)
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Practitioners at Customer Number OR Firm or Individual Name Address Address City Country Telephone I am the: Applicant/Inventor. Assignee of record of the entire in Statement under 37 CFR 3.73(b) SIGNATUS Name Ryuichi Hayashi Signature	terest. See 37 CFR 3.7 is enclosed. (Form PTO)	tate SB/96).	(Insert Bar Code Label Here) Zip
Practitioners at Customer Number OR Firm or Individual Name Address Address City Country Telephone I am the: Applicant/Inventor. Assignee of record of the entire in Statement under 37 CFR 3.73(b) is Signature Name Ryuichl Hayashi Signature Date NOTE: Signatures of all the inventors or assignees of	terest. See 37 CFR 3.7 is enclosed. (Form PTO)	tate SB/96).	(Insert Bar Code Label Here) Zip
Practitioners at Customer Number OR Firm or Individual Name Address Address City Country Telephone I am the: Applicant/Inventor. Assignee of record of the entire in Statement under 37 CFR 3.73(b) SIGNATUS Name Ryuichi Hayashi Signature	terest. See 37 CFR 3.7 is enclosed. (Form PTO) RE of Applicant or Ass	SB/96).	(Insert Bar Code Label Here) Zlp ord ve(s) are required. Submit multiple forms if

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POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

Application Number	10/047888
Filing Date	November 13, 2001
First Named Inventor	YOSHITERU HATASE ET. AL.
Title	COLORED THERMOPLASTIC RESIN COMPOSITIONS FOR LASER WELDING, SPECIFIC NEUTRAL ANTHRAQUINONE
Group Art Unit	UNKNOWN
Examiner Name	UNKNOWN
Altorney Docket Number	AD6836 US NA

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I am the:					
Applicant/Inve	ontor.				
Assignee of re	ecord of the entire interest. See 37 CFR 3	.71			
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).					
SIGNATURE of Applicant or Assignee of Record					
Name	Hiroyuki Sumi			· · · · · · · · · · · · · · · · · · ·	
Signature	Hirogular Sum				
Date	March 26 2002				
NOTE: Signatures of all the is more than one signature is re-	NOTE: Signatures of all the inventors or assigness of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.				
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Burden Now Bratument: This form is estimated to take 3 minutes to complete. They will very depending upon the needs of the individual case. Any Comments of time you are required to complete this turn should be sent to the Chief Internation Officer, U.S. Patent and Trademark Office, Washington. DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Title of Invention

As the below named inventor(s), I/we declare that:

PTO/SB/01A (10-01)

Approved for use through 10/31/2002, OMB 0661-0032 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1985, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN **APPLICATION DATA SHEET (37 CFR 1.76)**

This declaration	n is directed to:
	☐ The attached application, or
	Application No, filed onNovember 13, 2001
	as amended on(if applicable);
l/we believe th which a patent	t I/we am/are the original and first inventor(s) of the subject matter which is claimed and for sought;
I/ we have revi amended by ar	wed and understand the contents of the above-identified application, including the claims, as y amendment specifically referred to above;
applications, m	ge the duty to disclose to the United States Patent and Trademark Office all information known a material to patentability as defined in 37 CFR 1.56, including for continuation-in-part aterial information which became available between the filing date of the prior application and CT International filing date of the continuation-in-part application.
false statement	nade herein of my/own knowledge are true, all statements made herein on information and red to be true, and further that these statements were made with the knowledge that willful and the like are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001, and may alidity of the application or any patent issuing thereon.
	INVENTOR(S)
FULL NAME OF	INVENTOR(S)
FULL NAME Of	INVENTOR(S) YOSHITERU HATASE
FULL NAME Of Inventor one: Signature:	INVENTOR(S) YOSHITERU HATASE Citizen of:
FULL NAME Of Inventor one: Signature: Inventor two:	INVENTOR(S) YOSHITERU HATASE Citizen of: Japan REIKO KOSHIDA
FULL NAME OF Inventor one: Signature: Inventor two: Signature:	INVENTOR(S) YOSHITERU HATASE Citizen of: Japan REIKO KOSHIDA Citizen of: Japan Citizen of: Japan
FULL NAME OF Inventor one: Signature: Inventor two: Signature: Inventor three:	INVENTOR(S) YOSHITERU HATASE Citizen of: Japan REIKO KOSHIDA Citizen of: Japan HIROYUKI SUMI
FULL NAME Of Inventor one: Signature: Inventor two: Signature: Inventor three: Signature:	INVENTOR(S) YOSHITERU HATASE Citizen of: Japan REIKO KOSHIDA Life fish Citizen of: Japan HIROYUKI SUMI Minopulai Sumi Citizen of: Japan
FULL NAME OF Inventor one: Signature: Inventor two: Signature: Inventor three: Signature: Inventor four: Signature:	INVENTOR(S) YOSHITERU HATASE Citizen of: Japan REIKO KOSHIDA Life for Citizen of: Japan HIROYUKI SUMI Citizen of: Japan RYUICHI HAYASHI

depending upon the needs of the individual case, by 55 0.3.0, 122 and 37 CPR 1.14. This form is estimated to take 1 minute to complete. This time will vary depending upon the needs of the individual case, by comments on the amount of time you are required to complete this form should be sent to the Chief information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS, SEND TO: Assistant Commissioner for Patente, Washington, DC 20231.

PTO/88/01A (10-01)
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DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

little of invent	ion					
As the below named inventor(s), I/we declare that:						
This declaration is directed to:						
	The attached application, or					
	Application No. 10/047686 , filed on November 13, 2001					
as amended on(if applicable);						
I/we believe that I/we am/are the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought;						
I/ we have revie amended by an	ewed and understand the contents of the above-identified application, including the claims, as y amendment specifically referred to above;					
to me/us to be applications, ma	ge the duty to disclose to the United States Patent and Trademark Office all information known e material to patentability as defined in 37 CFR 1.56, including for continuation-in-part aterial information which became available between the filling date of the prior application and PCT international filling date of the continuation-in-part application.					
belief are belief false statements	made herein of my/own knowledge are true, all statements made herein on information and ved to be true, and further that these statements were made with the knowledge that willful is and the like are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001, and may validity of the application or any patent issuing thereon.					
FULL NAME OF	INVENTOR(S)					
Inventor one:	YOSHITERU HATASE					
Signature:	Yorkitry Hatase Clizen of: Japan					
Inventor two:	REIKO KOSHIDA					
Signature:						
	Citizen of: Jepan					
Inventor three:	Citizen of: Japan HIROYUK SUM					
Inventor three:						
•	HIROYUK SUMI					
Signature: Inventor four: Signature:	HIROYUKI SUMI Citizen of: Jepan					

Burden Mour Statement: This collection of Information is required by 35 U.S.C. 115 and 37 CFR 1,63. The Information is used by the public to file (and the USPTO to process) an application, Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1,14. This form is estimated to take 1 minute to complete. This time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Tradement Officer, Washington, DC 20231, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS, SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

*Total of _

forms are submitted.

PAGE

PTO/SB/22(10-00)

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PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a) Docket Number (Optional) AD 6836 US NA					
	In re Application of REIKO KOSH	IDA			
	Application Number 10/047,686	Filed NOVEMBER 21, 2001			
	For Colored Thermoplastic Resin Specific Neutral Anthraquinone Dys Molded Product Thereform	Compositions For Laer Welding, es as Colorants Therefor, and			
Group Art Unit Examiner 1751 Unknown					
This is a request under the provision reply in the above identified applicati	This is a request under the provisions of 37 CFR 1.136(a) to extend the period for filing a reply in the above identified application.				
The requested extension and approp (check time period desired):	riate non-small-entity fee are as folio	ws			
One month (37 CFR 1	.17(a)(1))	\$ <u>110</u>			
☐ Two months (37 CFR	1.17(a)(2))	\$			
☐ Three months (37 CF)	R 1.17(a)(3))	\$			
☐ Four months (37 CFR	1.17(a)(4))	\$			
☐ Five months (37 CFR	1.17(a)(5))	\$			
above is reduced by one-half, and the resulting fee is: \$ A check in the amount of the fee is enclosed. Payment by credit card. Form PTO-2038 is attached. The Commissioner has already been authorized to charge fees in this application to a Deposit Account. The Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account Number 04-1928. I have enclosed a duplicate copy of this sheet.					
assignee of record of the	entire interest. See 37 CFR 3.71				
Statement under 37 CFI	R 3.73(b) is enclosed. (Form PTO/Si	B/96).			
☑ attorney or agent of record	i.				
attorney or agent under 37 Registration number if acti	7 CFR 1.34(<i>a</i>), ng under 37 CFR 1.34(a)				
WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.					
fine 15702 Willitten					
Date		Signature			
•	Wil	llam H. Hamby Reg. 31,521			
Typed or printed name					
OTE: Signatures of all the inventors or sasignees of record of the entire interest or their representative(s) are required. Submit utiple forms if more than one signature is required, see below.					

Burden Hour Statement: This form is estimated to take 0.1 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Tradement Office, Weekington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS SEND TO: Assistant Commissioner for Patents, washington, OC 20231.

Page 1 of 1



United States Patent and Trademark Office

COMMISSIONER FOR PATENTS UNITED STATES PATENT AND TRADEMARK OFFICE WASHINGTON, D.C. 20231

APPLICATION NUMBER

FILING/RECEIPT DATE

FORST NAMED APPLICANT

www.uspto.gov ATTORNEY DOCKET NUMBER

10/047,686

WILMINGTON, DE 19805

11/13/2001

Reiko Koshida

AD6836

23906 E I DU PONT DE NEMOURS AND COMPANY LEGAL PATENT RECORDS CENTER BARLEY MILL PLAZA 25/1128 4417 LANCASTER PIKE

CONFIRMATION NO. 3798 FORMALITIES LETTER OC000000007833489*

Date Mailed: 03/14/2002

NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

Filing Date Granted

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given TWO MONTHS from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The oath or declaration is missing. A properly signed oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date, is required.
- To avoid abandonment, a late filing fee or oath or declaration surcharge as set forth in 37 CFR 1.16(I) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.
- The balance due by applicant is \$ 130.

A copy of this notice MUST be returned with the reply.

Customer Service Certe

Initial Patent Examination Division (703) 308-1202

PART 2 - COPY TO BE RETURNED WITH RESPONSE

Rev.3/94

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the Application of: REIKO KOSHIDA

CASE NO.: AD 6836 US NA

APPLICATION NO.: 10/047,686

CONFIRMATION NO.: 3798

GROUP ART UNIT: 1751

EXAMINER: UNKNOWN

FILED: NOVEMBER 13, 2001

FOR: COLORED THERMOPLASTIC RESIN COMPOSITOINS FOR LASER

WELDING, SPECIFIC NEUTRAL ANTHRAQUINONE DYES AS COLORANTS

THEREFOR, AND MOLDED PRODUCT THEREFROM

RESPONSE TO NOTICE TO FILE MISSING PARTS OF APPLICATION-FILING DATE GRANTED

Assistant Commissioner for Patents Washington, DC 20231

Attention: Box Missing Parts

Sir:

In response to the Notice to File Missing Parts of which 2002 (a copy of Application mailed March 14, attached), enclosed is a Declaration and Powers of Attorney for the above-referenced application. Please charge the \$130.00 surcharge fee applicable for filing the Declaration and Powers of Attorney on a date later than the filing date to de Nemours (E. I. du Pont 04-1928 Deposit Account If the fee is insufficient or incorrect, please Company). charge or credit the balance to the above-identified account.

Respectfully submitted,

WILLIAM H. HAMBY

ATTORNEY FOR APPLICANTS

REGISTRATION NO. 31,521 TELEPHONE: (302) 992-3230

FACSIMILE: (302) 992-3257

Dated:
S:\Patent Documents\Eng. Polymers\AD-68xx\AD6836\Missing Parts.doc

PTQ/SB/17 (11-01)

Approved for use through 10/31/2002. OMB 0851-0032

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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FEE TRANSMITTAL for FY 2002 Patent fees are subject to annual revision.			Complete If Known					
			Application Number 10/047,686					
			Filing Date			NOVEMBER 13, 2001		
			First Named Inventor			REIKO KOSHIDA		
			Examiner Neme			UNKNOWN		
Applicant Claims small entity status. See 37 CFR 1.27			Group / Art Unit			1751		
TOTAL AMOUNT OF PAYMENT (\$) 240			Alterney Docket No. AD 8838 US NA					
METHOD OF PAYMENT (check all that apply)			THE CALCULATION OF THE CALCULATI					
Check Credit card Money Order Other None			FEE CALCULATION (continued)					
Depast Account:			3. ADDITIONAL FEES Large Entity Small Entity					
Peposit		Fee	Fée	Fee	Fee	Fee Description	Fee	
Account	04-1928	105	(\$) 130	Code 205	(S) 85	Sumborno lete en	Pald	
Number		127	50	227	25	Surcharge - late provisional filling fee or	130	
Deposit Account	E. I. du Pont de Nemours and Company	139	130	139	130	cover sheet. Non-English specification		
		147 112	2,520	147	2,520	For filling a request for reexamination	—-	
The Commissioner is authorized to: (check all that apply)			920*	112	920"	Requesting publication of SIR prior to Examiner action		
Charge fee(s) indicated below Credit any overpayments Charge any additional fee(s) during the pendency of this application			1,840*	113	1,840*	Requesting publication of SiR after		
Last VINNE IND(6) INDICETED DEINW AVCARI FACTAR SULA CLIA			110	215	55	Examiner action		
above-identifier	d deposit account	116	400	216	200	Extension for reply within second month	10.00	
	FEE CALCULATION	117	920	217	460	Extension for reply within third month	-	
	ILING FEE	118	1,440 1,960	218 228	720	Extension for raply within fourth month		
	Free Fee Fee Description	119	320	219	980 160	Extension for raply within fifth month Notice of Appeal		
	Fee Fee <u>Fee Description</u> Code (8) Fee Paid	120	320	220	160	Filing a brief in support of an appeal		
	201 370 Utility filing fee	121	280	221	140	Request for oral hearing	\dashv \vdash	
	206 165 Design filing fee	138	1,510	138	1,510	Petition to institute a public use proceeding		
- 11	207 255 Plant filing fee 208 370 Relsaue filing fee	140	110	240	58	Petition to revive – unavoidable		
444	214 80 Provisional filling fee	141	1,280	241	640	Petition to revive - unintentional		
		143	1,280 460	242 243	640 230	Utility Issue fee (or reissue)	$\Box 1$	
	SUBTOTAL (1) (5) 0	144	620	244	310	Design issue fee	I	
2. EXTRA CLAIM	FEE8	122	130	122	130	Petitions to the Commissioner	 - `	
	Extra Fee from Fee	123	50	123	50	Processing fee under 37 CFR 1.17(q)		
Total Claims	-20 = 0 x 18 = 0	126	180	128	180	Submission of information Disclosure Stmt		
Independent Claims	-3 = 0 x 84 = 0	581	40	581	40	Recording each patent assignment per property (times number of properties)	$\exists \bot$	
Multiple [7]		148	740	248	370	Filing a submission after final rejection		
Dependent Li	X 280 = 0	149	740	249	370	(37 CFR § 1.129(a)) For each additional invention to be	[
Large Entity	Small Entity		ĺ			examined (37 CFR § 1.129(b))	1 1	
1	Foe Fee <u>Fee Description</u>	179	740	279		Request for Continued Examination (RCE)		
103 18 102 84	203 9 Claims in access of 20	169	900	169	900	Request for expedited examination of a	─	
104 280	202 42 Independent claims in excess of 3 204 140 Multiple dependent claim, if not paid		,			design application		
109 84	209 42 ** Reissue Independent claims over	Other fee (specify)						
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or number previously paid, if greater; For Relazues, see above			Reduced by Basic Filing Fee Paid SUBTOTAL (3) (5) 240					
UBMITTED BY					Complete (if applicable)			
ama (Prini/Typa)	William H. Helmon Registration No	Attorney	(Agent)	31,521		Telephone (302)#92-3230		
ignoture USECLESTEEN Date 182								
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10/047,686 AD 6836 US NA Fee Transmittal Petition for Extension Response to Mission Parts Declarations Powers of Attorney

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